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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/269,754	04/07/1999	JUHA PYRHONEN	P8306-9004	1554
7	7590 04/09/2002			
ARENT FOX KINTNER PLOTKIN & KAHN, PLLC 1050 CONNECTICUT AVENUE , N.W. SUITE 400			EXAMINER	
			LAM, THANH	
WASHINGTON, DC 20036-5339			ART UNIT	PAPER NUMBER
			2834	

Please find below and/or attached an Office communication concerning this application or proceeding.



Application No.

09/269,754

Applicant(s)

Lappeenranta

Office Action Summary

Examiner

Art Unit



		Thanh Lam	2834	
	The MAILING DATE of this communication appears	on the cover sheet with the corres	spondence addr	9ss
A SH	for <mark>Reply</mark> ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE3 MONTH	H(S) FROM	
- Exter af - If the	nsions of time may be available under the provisions of 37 C ter SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) days a considered timely.	cation.		
- If NC cc - Failu - Any	Deriod for reply is specified above, the maximum statutory ommunication. The to reply within the set or extended period for reply will, be reply received by the Office later than three months after than three months after than patent term adjustment. See 37 CFR 1.704(b).	y statute, cause the application to bec	ome ABANDONE	ED (35 U.S.C. § 133).
Status				
1) 🗀	Responsive to communication(s) filed on		- Toring - Vende	
2a) 🗶	This action is FINAL . 2b) This ac	tion is non-final.		
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under $Ex\ partial$			e merits is
Disposi	tion of Claims			
4) 🗶	Claim(s) 1-12	is/are	e pending in the	e application.
4	4a) Of the above, claim(s)	is/ar	e withdrawn f	rom consideration.
5) 🗆	Claim(s)		is/are allowed	,
6) 💢	Claim(s) <u>1-12</u>		is/are rejected	
7) 🗆	Claim(s)		is/are objected	d to.
8) 🗆	Claims			
Applica	ition Papers			
9) 🗌	The specification is objected to by the Examiner.			
10)	The drawing(s) filed onis/are	e objected to by the Examiner.		
11)	The proposed drawing correction filed on	is: a}□ approved	b) disapprov	ved.
12)	The oath or declaration is objected to by the Exam	iner.		
Priority	under 35 U.S.C. § 119			
13) 🗆	Acknowledgement is made of a claim for foreign p	riority under 35 U.S.C. § 119(a)	-(d).	
a) [☐ All b) ☐ Some* c) ☐ None of:			
	1. \square Certified copies of the priority documents have	ve been received.		
	2. \square Certified copies of the priority documents have	ve been received in Application N	۱o،	
	3. Copies of the certified copies of the priority of application from the International Bure	eau (PCT Rule 17.2(a)).	this National S	Stage
	ee the attached detailed Office action for a list of the		/-×	
14)∐	Acknowledgement is made of a claim for domestic	priority under 35 U.S.C. § 119	(e).	
Attachm	ent(s)			
	otice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Paper	No(s).	
	otice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application	(PTO-152)	
17) 💹 In	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:		

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. Claims 1-6 and 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ozaki (JP352062604A) in view of Sato (JP404138056A).

Ozaki discloses an electric machine construction, comprising: a stator space defined by a shell (1) and end portions (4) at both ends of the shelf, a stator (2) and a rotor (3) having a first end and a second end disposed within said stator space, comprising at least one cooling medium inlet opening (6) in the shell and, a suction means (5) at the vicinity of both end portions of the stator space for providing suction for drawing cooling medium into said stator space, wherein said suction means are fans arranged at an interior side of the end portions of the stator space including rotor bearings, in which an outlet channel (7) of said fans extends through the end portions, and wherein the arrangement is such that the cooling medium is drawn by the suction into the stator space through said at least one inlet opening and that the cooling medium is

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removed at the vicinity of both portions of the stator space. However, Ozaki does not teach the inlet opening positioned intermediate between the ends of the rotors.

Sato discloses (fig. 1 and 4) an inlet opening (inlet arrow of fig. 4) positioned at intermediated of the stator for the purpose of evenly distributing inlet air in the stator space.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to rearrange the position of the inlet opening in the shell as taught by Ozaki to the intermediated position (taught by Sato) between the rotor ends (taught by ozaki) to improve the inlet air evenly distributing in the stator space.

Regarding claim 8, the method claimed language is counter part of the apparatus claimed language. Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to develop a particular method for the disclosed apparatus of Ozaki in view of Sato.

Claims 7 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ozaki in view of Sato, as apply to claim 1 and 8 above, and further in view of Sheerin.

Ozaki and Sato disclose all the aspect of claimed invention except for a heat exchanger.

Sheerin discloses a heat exchanger (24) provided within a space (108) between the outer surface of a shell (20) and the outer housing (40) for the purpose of cooling.

It would have been obvious to one of ordinary skill in the art at the time the invention was made utilize the combination structure of the machine as taught by Ozaki and Sato and modify

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the heat exchanger structure of Sheerin to adapt the stator shell of Ozaki to give an electric machine an improvement in cooling and prevent overheat of the machine.

Regarding claim 12, the method claimed language is counter part of the apparatus claimed language. Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to develop a particular method for the disclosed apparatus of Ozaki and Sato in view of Sheerin.

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (703) 308-7626. The fax phone number for this Group is (703) 305-3431.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0656.

Thanh Lam

March 28,2002

NESTOR RAMIREZ

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800